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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-------------------------|---------------------|----------------------|---------------------|------------------|--|
| 10/680,464 | 10/07/2003 | Kenneth Kay Smith | 200205516-1 | 5180 | |
| 22879 | 7590 05/25/2005 | | EXAM | EXAMINER | |
| HEWLETT PACKARD COMPANY | | | NGUYEN, THINH T | | |
| P O BOX 27 | 2400, 3404 E. HARMO | NY ROAD | | | |
| | TUAL PROPERTY AD | | ART UNIT | PAPER NUMBER | |
| FORT COLI | LINS, CO 80527-2400 |) | 2818 | | |

DATE MAILED: 05/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | MI |
|---|--|---|-----------|
| | Application No. | Applicant(s) | <u> </u> |
| | 10/680,464 | SMITH ET AL. | |
| Office Action Summary | Examiner | Art Unit | |
| | Thinh T. Nguyen | 2818 | |
| The MAILING DATE of this communic Period for Reply | cation appears on the cover sheet wi | th the correspondence address | |
| A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30). - If NO period for reply is specified above, the maximum stated the second of the sec | CATION. If 37 CFR 1.136(a). In no event, however, may a reinication. If days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB. | eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133). | 1. |
| Status | | | |
| 1) Responsive to communication(s) filed | d on <i>20 April 2005</i> . | • | |
| | b)☐ This action is non-final. | 1. | |
| 3) Since this application is in condition for | or allowance except for formal matte | ers, prosecution as to the ments is | ; |
| closed in accordance with the practic | e under <i>Ex parte Quayle</i> , 1935 C.D | . 11, 453 O.G. 213. | |
| Disposition of Claims | | · in the second of the second | |
| 4) Claim(s) <u>1-12,18-37</u> is/are pending in | the application. | ÷ | |
| 4a) Of the above claim(s) is/are | e withdrawn from consideration. | | |
| 5) Claim(s) is/are allowed. | • | | |
| 6)☐ Claim(s) is/are rejected. | | | • |
| 7) Claim(s) is/are objected to. | | | |
| 8) Claim(s) <u>1-12, 18-37</u> are subject to re- | striction and/or election requirement | 41 - E. S. G. | |
| Application Papers | | ` . | |
| 9) The specification is objected to by the | Examiner. | | |
| 10) The drawing(s) filed on is/are: | a) accepted or b) objected to b | by the Examiner. | |
| Applicant may not request that any object | tion to the drawing(s) be held in abeyan | ce. See 37 CFR 1.85(a). | |
| Replacement drawing sheet(s) including t | the correction is required if the drawing(| s) is objected to. See 37 CFR 1.121(d | d). |
| 11) The oath or declaration is objected to | by the Examiner. Note the attached | Office Action or form PTO-152. | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for | or foreign priority under 35 U.S.C. & | 119(a)-(d) or (f) | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | or foreign priority under 55 5.5.5. § | 113(a)-(a) 01 (1). | |
| 1. Certified copies of the priority d | locuments have been received | | |
| | locuments have been received in A | onlication No | |
| <u> </u> | f the priority documents have been | | |
| application from the Internation | • | | |
| * See the attached detailed Office action | , | received. | |
| | | | |
| Attachment(s) | | • | |
| 1) Notice of References Cited (PTO-892) | 4) Interview S | ummary (PTO-413) | |
| 2) Notice of Draftsperson's Patent Drawing Review (PT | O-948) Paper No(s |)/Mail Date | |
| Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date | 7TO/SB/08) 5) | formal Patent Application (PTO-152) — | |

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DETAILED ACTION

Election/ Restriction

Claims 1-12, 18-37 are pending in this application.

Claims 1-12, 18-37 directed to semiconductor device assembly are restricted as follows:

- 1. The claims are directed to the following patently distinct species of the claimed invention:
- **Species I.** as can be understood is described in claim 1 is directed to a magnetic memory that has a first line having a first cross-sectional area, a second line having a second cross-sectional area different than the first cross-sectional area
- **Species II.** as best as can be understood is described in claim 9 is directed to a magnetic memory that has a magnetic memory line for carrying a current, located adjacent the magnetic memory cell stack, the magnetic memory line including a first region with a first width and a second region with a second width smaller than the first width.
- Species III. as best as can be understood is described in claim 18 is directed to a magnetic memory cell that has a first line having a first width and a second width, where the first width is greater than the second width; and a memory cell stack having a first side adjacent the first line along the second width.
- **Species IV.** as best as can be understood is described in claim 29 is directed to a magnetic memory device that has first lines crossing the array of magnetic memory cells, the first lines having a first section and a second section, where the first section is wider than the second section.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

CONCLUSION

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on 9.00 AM 6.00 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Thinh T Nguyen

Devid Nelms

Supervisory Patent Examiner Technology Center 2800

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